

# WEST Search History

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<input type="checkbox"/>	L106	L105 and sampl\$3	2
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<input type="checkbox"/>	L97	(database\$1 and histogram\$1 and sampl\$3 and statistic\$3).ab,clm. and @py<=2003	13
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└ L86	L85 and access\$3	4
└ L85	L84 and query\$3	4
└ L84	L82 and partition\$3	6
└ L83	L82 and (partition\$3 near5 record\$1)	2
└ L82	(merg\$3 near5 index\$1).clm. and @py<=2003	48
└ L81	20020120598.pn.	2
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└ L78	L76 and (partition\$3 near5 index\$1)	45
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└ L73	L72 and sampl\$3	1
└ L72	L71 and statistical	1
└ L71	L70 and cluster\$3	1
└ L70	L69 and b\$tree	2
└ L69	L68 and (sub\$index\$1)	2
└ L68	L67 and sort\$3	18
└ L67	5960194.uref.	41
└ L66	L64 and sub\$index\$1	0
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└ L64	L62 and (search\$3 near5 record\$1)	14
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└ L61	L60 and (record\$1 near5 index\$1)	108
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□	L54	5644763 5694591 5745904 5806058 5809494 5884307 5903888 5913206 5913207 5926813 5950186 5956705 5960423 5963935 6026406 6061437 6061678 6061678 6061437 6067540 6070164 6081800 6122644 6141655 6144957 6192357 6195656 6219662 6223171 6219662 6223171 6243718 6253196 6266662 6278992 6285996 6356897 6360213 6381324 6397204 6405187 6421662 6427143 6442539 6457024 6466942 6470287 6487549 6564212 6567816 6591269 6598038 6633883 6668263).pn.	0
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□	L49	6438562.uref.	19
□	L48	L47 and (sampl\$3 near5 record\$1)	4
□	L47	L43 and (index\$3 near5 record\$1)	81
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□	L45	L44 and delimiter\$1	0
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□	L43	L42 and partition\$3	190
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□	L41	L39 and table\$1 and access\$3 and data and structure and hierarchical	537
□	L40	L39 and merg\$3 and sub\$index\$3	3
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└ L33	(table\$1 and index\$3 and merg\$3).ti. and @py<=2002	3
└ L32	b\$tree and histogram\$1 and (sampl\$3 near5 record\$1) and index\$3 and @py<=2003	4
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└ L30	L23 and statistical	0
└ L29	L23 and (statistical near5 record\$1)	0
└ L28	L23 and histogram\$1	0
└ L27	L23 and cluster\$3	0
└ L26	L23 and (cluster\$3 near5 index\$3)	0
└ L25	L23 and (cluster\$3 nea5 index\$3)	0
└ L24	L23 and (partition\$1 near5 cpu\$1)	0
└ L23	L22 and process\$3	1
└ L22	L21 and access\$3	1
└ L21	L19 and append\$3	1
└ L20	L19 and merg\$3	0
└ L19	L18 and (sub\$index\$3)	1
└ L18	L17 and non\$overlap\$5	1
└ L17	L16 and (filter\$3 or query\$3)	5
└ L16	L15 and (sub\$index\$3)	5
└ L15	L10 and hierarchical	91
└ L14	L13 and index	2
└ L13	(partition\$3 near5 delimiter\$1) and @py<=2002	16
└ L12	(b\$tree near5 partition\$3) and (partition\$3 near5 delimiter\$1) and @py<=2002	0
└ L11	L10 and (partition\$3 near5 delimiter\$1)	0
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└ L6	L5 and delimiter\$1	0
└ L5	L4 and index\$3 and partition\$3	24
└ L4	6003036.uref.	44
└ L3	L2 and hierarchical and partition\$3 and overlap\$5	1

b\$tree and database\$1 and table\$1 and record\$1 and index\$3 and cluster\$3 and

	L2	sort\$3 and merg\$3 and access\$3 and query\$3 and partition\$3 and @py<=2002	36
	L1	histogram\$1 and delimiter\$1 and cluster\$3 and query\$3 and @py<=2002	6

END OF SEARCH HISTORY



## Patents

Patents 1 - 10 on sub index index partition query. (0.15 seconds)

### Method and mechanism for retrieving values from a database

US Pat. 6374232 - Filed Jun 24, 1998 - Oracle Corp.

For example, with the **query** to select A from T where A<5 and B=5, ... Each **index partition** 702, 704, and 706 stores **index** entries for particular ranges of ...

### System and method for searching an extended database

US Pat. 7174346 - Filed Sep 30, 2003 - Google, Inc.

The balancer filter 272 uses the information in the **partition index** 10 274 to produces a **sub-partition** map for each of the terms in the search **query**. ...

### Method for estimating cardinalities for query processing in a relational database management ...

US Pat. 5761653 - Filed Apr 3, 1996 - International Business Machines Corporation

Because the subsets are independent, the cardinality for a **partition** is ...

C6), the full **index** cardinality is known 14 15 cardinality for the **sub-group** is ...

### Alternate key index query apparatus and method

US Pat. 5884304 - Filed Nov 15, 1996 - Novell, Inc.

The engine may **partition** the criterion into its full text search portions and ... The **query** engine may ignore a **sub-predicate** under the following ...

### Interval-partitioning method for multidimensional data

US Pat. 6003036 - Filed Feb 12, 1998

The data is partitioned to make the **query** search more efficient. ... This is done according to the non-dense **index** provide exact **partition** boundaries. ...

### Filtered index apparatus and method

US Pat. 5873079 - Filed Nov 15, 1996 - Novell, Inc.

The engine may **partition** the criterion into its full text search portions and ... The **query** engine may ignore a **sub-predicate** under the following ...

### Knowledge extraction system and method

US Pat. 6470333 - Filed Jul 26, 1999 - Jarg Corporation

Instead, the data warehouse can contain an **index** database, which stores ... of the **sub-query** to perform a search on its respective **partition** of the **index** ...

### Apparatus and method for decomposing database queries for database management system including ...

US Pat. 5742806 - Filed Jan 31, 1994 - Sun Microsystems, Inc.

If there is no **index**, then the **query** can be treated as was Q1, 65 with the ax ... Then the optimizer will generate NLJ(a,b). The tuples in each **partition** ...

### Method and system for performing range max/min queries on a data cube

US Pat. 5926820 - Filed Feb 27, 1997 - International Business Machines Corporation

A computer program product for use with a computer system for performing a range max/min **query** in a database represented as a d-dimensional data cube having ...

Apparatus and method for decomposing database queries for database management system including ...

US Pat. 6289334 - Filed Jan 31, 1997 - Sun Microsystems, Inc.

Each subquery therefore retrieves its results from a separate **partition** of the emp table. ... If there is no **index**, then the **query** can be treated as was Q1, ...

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## Patents

Patents 11 - 20 on **sub index index partition query**. (0.02 seconds)

**Method and apparatus for implementing parallel operations in a database management system**  
US Pat. 5857180 - Filed Jul 21, 1997 - Oracle Corporation

These include parallelizer, table queue, table access by **partition**, and **index** creation row sources. An **index** creation row source assembles **sub**-indices from ...

### Hybrid query apparatus and method

US Pat. 5870739 - Filed Nov 15, 1996 - Novell, Inc.

The engine may **partition** the criterion into its full text search portions and  
... The **query** engine may ignore a **sub**-predicate under the following ...

### Method and system for creating a database table **index** using multiple processors

US Pat. 6778977 - Filed Apr 19, 2001 - Microsoft Corporation

5 Therefore, each independent **sub-index** may be merged together to form a ...  
At this point, the **index** may be stored and utilized by the **query** manager to ...

### Storing multidimensional data in a relational database management system

US Pat. 6484179 - Filed Oct 25, 1999 - Oracle Corporation

The latest **partition's** data is added to the warehouse as follows: (1) load or  
insert the data into a table, tiling it according to the desired **sub-cube** ...

### Constructing balanced multidimensional range-based bitmap indices

US Pat. 5761652 - Filed Mar 20, 1996 - International Business Machines Corporation

Thus, range-based multidimensional bitmap **index**- system capable of supporting  
... In step 20, a complex **query** including implemented method for dynamically ...

### Heterogeneous record search apparatus and method

US Pat. 6167393 - Filed Nov 15, 1996 - Novell, Inc.

The engine may **partition** the criterion into its full text search portions and  
... The **query** engine may ignore a **sub**-predicate under the following ...

### Method for executing star queries

US Pat. 5848408 - Filed Feb 28, 1997 - Oracle Corporation

However, the technique may be used with any type of **index** structure that produces  
... star **query** are reevaluated for each **sub-partition** of the operation. ...

### System for regulating multicompiler data transfer by allocating time slot to designated ...

US Pat. 5745758 - Filed Jan 10, 1997

~n, -At ,«^<,o™- <> comprised of level **index** field, subject **index** field, ...  
script field, and level language and database **query** procedures from SMART ...

### Integration platform for heterogeneous databases

US Pat. 5970490 - Filed Nov 4, 1997 - Xerox Corporation

Alternatively, 55 **partition** of the instances, where each **partition** subset has a it  
... The result of an aggregation is a the groupby clause of an SQL **query**, ...

External sorting using key value distribution and range formation

US Pat. 4575798 - Filed Jun 3, 1983 - International Business Machines Corporation

25 Parenthetically, the range **query** can be replaced by the following **query** ...

larger ranges such that each **partition** fits within the CPU internal memory; ...

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sub index index partition query

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## Patents

Patents 21 - 30 on sub index index partition query. (0.04 seconds)

System for estimating worst time duration required to execute procedure calls and looking ahead ...

US Pat. 5832289 - Filed Jan 10, 1997

... high level language and database **query** procedures from SMART 212 and **partition**

... Finally, the masking and control **sub**-field determine whether the next ...

Relational database system for storing nodes of a hierarchical index of multi-dimensional data ...

US Pat. 6505205 - Filed Jan 3, 2002 - Oracle Corporation

After the first **partition**, it is determined whether each new subset of data ...

Such an **index**, however, is inefficient for responding to a **query** based on a ...

Single chip integrated circuit system architecture for document installation set computing

US Pat. 5600844 - Filed Apr 5, 1993

... level language and database **query** procedures from SMART 212 and **partition** them

... Finally, the masking and control **sub**-field determine whether the next ...

Document data processor for an object-oriented knowledge management system containing a personal ...

US Pat. 5806068 - Filed Dec 13, 1996

... **partition**, and produce a coherent procedure 10 c°ntr°L There Is als° nwf ...

the next level language and database **query** procedures from SMART selected ...

Shared nothing parallel execution of procedural constructs in SQL

US Pat. 6081801 - Filed Jun 30, 1997 - International Business Machines Corporation

**Sub**-requests are run in 15 executed on the same parallel system may have ...

In a serial implementation of DB2, the **query** plan is executed on a single node, ...

Single chip integrated circuit system architecture for document instruction set computing

US Pat. 5867712 - Filed Dec 5, 1997

... level language and database **query** procedures from SMART 25 212 and **partition**

... Finally, the masking and control **sub**-field determine whether the next ...

Methods and apparatus for high-speed approximate sub-string searches

US Pat. 6931401 - Filed May 6, 2002 - Paracel, Inc.

**Index** Value AAA AAC ALP (Q2, 1) LIC (Q3, 4) LPT **Index** Value PTV (Q2, ... When all of the combined **query**'s hits for a **partition** of the database have been ...

Indexing management for hierarchical main memory

US Pat. 6763347 - Filed Oct 19, 2001

A basic search or **query** against a hierarchical database is represented by a ...

The database runtime swaps a **partition index** into or out of memory based on ...

Computer, memory, telephone, communications, and transportation system and methods

US Pat. 5983004 - Filed Nov 7, 1996

... high level language and database **query** procedures from SMART 212 and **partition**

... Finally, the masking and control **sub**-field determine whether the next ...

System and method for searching and processing databases comprising named annotated text strings

US Pat. 6249784 - Filed May 19, 1999 - Nanogen, Inc.

... to **partition** the ordered string into a plurality of **sub**-strings each marked

... and reading a first search **query** and conducting a first database search. ...

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## Patents

Patents 31 - 40 on **sub index index partition query**. (0.08 seconds)

### Evaluation of existential and universal subquery in a relational database management system for ...

US Pat. 5864840 - Filed Jun 30, 1997 - International Business Machines Corporation

... may involve scanning a **partition** of table S via an **index** or via a table scan.

... The rewritten and transformed **sub- query** is provided to the **query** ...

### Sampling for aggregation queries

US Pat. 6842753 - Filed Jan 12, 2001 - Microsoft Corporation

A selection **query** partitions the relation into two **sub-relations**: tuples that

... The same is true for Group-By queries 55 which **partition** the relation into ...

### Optimization of queries using relational algebraic theta-semijoin operator

US Pat. 6032144 - Filed May 23, 1997 - Lucent Technologies Inc.

If the optimizer cannot explicitly FROM clause of the SQL **query**. ... For SQL queries that are optimized well using tradi- hash joins and **index** joins. ...

### Method for accelerating access to a database clustered partitioning

US Pat. 5710915 - Filed Dec 21, 1995 - Electronic Data Systems Corporation

Block 603 checks to determine if the **query** is exactly specified using the set of ranges just ... If this **partition** is completely out of the result set, ...

### Method and apparatus for identifying an object selected on a computer output display ...

US Pat. 5731814 - Filed Dec 27, 1995 - Oracle Corporation

From the color obtained in the **query** operation, extensive processing to ...

The graphics **sub-system** 200 is representative of a 55 the first **partition** ...

### Layered index with a basic unbalanced partitioned index that allows a balanced structure of blocks

US Pat. 6175835 - Filed Jan 22, 1999 - Ori Software Development, Ltd.

Thus, in response to an application generated **query** that seeks for one or more

... The invention is, of course, not limited to the specified **partition** of ...

### Digital dictionary with a communication system for the creating, updating, editing, storing ...

US Pat. 6151598 - Filed Dec 4, 1997

... high level language and database **query** procedures from SMART 212 and **partition** them into ... next subject data type, and masking and control **sub-fields**, ...

### Evaluation of existential and universal subquery in a relational database management system for ...

US Pat. 6032143 - Filed Dec 4, 1998 - International Business Machines Corporation

... may involve scanning 40 a **partition** of table S via an **index** or via a table scan.

... The rewritten and transformed **sub- query** is provided to the **query** ...

### Information processing system for directing information request from a particular user ...

US Pat. 6349297 - Filed Dec 5, 1997

... high level language and database **query** procedures from SMART 212 and **partition**  
... Finally, the masking and control **sub**-field determine whether the next ...

Database systems, methods and computer program products including primary key and super key ...

US Pat. 6795821 - Filed Jul 17, 2001 - Trendium, Inc.

Each table also typically includes manipulation and **query** operations, ...  
columns are typically **partition** (or **sub-partition**) of the table a record belongs. ...

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## Patents

Patents 1 - 3 on **sub-indexes b-tree** (0.20 seconds)

### Method and mechanism for retrieving values from a database

US Pat. 6374232 - Filed Jun 24, 1998 - Oracle Corp.

... a **B-tree** data structure built upon at least a first column of said table, ...  
a plurality of **sub-indexes** based on values stored for said first column; ...

### Method and system for creating a database table index using multiple processors

US Pat. 6778977 - Filed Apr 19, 2001 - Microsoft Corporation

In an embodiment, the sub-index is a data structure in the form of a **B-Tree**. ...  
3, the **sub-indexes** 326 and 328 have the same depth in terms of layers of ...

### Indexing to efficiently manage versioned data in a database system

US Pat. 7047250 - Filed Sep 27, 2002 - Oracle International Corporation

In partitioned 5 indexing, an index is divided in **sub-indexes**, referred to as  
... An index partition may be a **b-tree** index, a bit-map index, a hash index, ...

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b-tree filtering merging sub-indexes

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## Patents

Patents 1 - 1 on **b-tree filtering merging sub-indexes** (0.13 seconds)

[Method and system for creating a database table index using multiple processors](#)

US Pat. 6778977 - Filed Apr 19, 2001 - Microsoft Corporation

A flow diagram showing the operational characteristics performed in **merging** the **sub-indexes** is shown in FIG. 9. Initially, the process 900 begins with ...

b-tree filtering merging sub-indexes

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## Patents

Patents 1 - 10 on **records b-tree filtering** (0.25 seconds)

### B-tree key-range bit map index optimization of database queries

US Pat. 5560007 - Filed Oct 18, 1995 - Borland International, Inc.

General techniques for the construction and operation of **B-tree** index files is well documented in ... however, the process of **filtering** information **records** ...

### B tree structure and method

US Pat. 5813000 - Filed Mar 14, 1996 - Sun Micro Systems

A final test point is made with only 80% of the available **records** on the compact disk ... Then, % of the available **records** are retrieved from the B3 tree. ...

### Supporting database indexes based on a generalized B-tree index

US Pat. 6219662 - Filed Jul 9, 1998 - International Business Machines Corporation

In the first stage, an index is applied to retrieve a subset of **records** ...

The DMS Filter module 424 and the RDS Filter module 426 perform final **filtering**. ...

### System and methods for optimizing database queries

US Pat. 5666528 - Filed Jun 13, 1996 - Borland International, Inc.

With local **filtering**, on the other hand, the condition is of a table can be organized in many different ways, depend- subset of **records**. An example of this, ...

### Relational database system and method with high data availability during table data restructuring

US Pat. 5625815 - Filed Apr 12, 1996 - Tandem Computers, Incorporated

**B-tree** is updated. object or deletion of a range of **records** in the first object, that 25 allowed to continue during this phase of the Move Partition Finally ...

### Non-modal database system wth methods for incremental maintenance of live reports ...

US Pat. 5694608 - Filed Jan 27, 1995 - Borland International, Inc.

And this limitation of conventional indexing **records**. FIG. 15 illustrates a simple **B-tree** 1500, a per record basis, "filters" are limited to relatively ...

### System and method for efficiently indexing and storing a large database with high data insertion ...

US Pat. 5204958 - Filed Jun 27, 1991 - Digital Equipment Corporation

INDEX NEW **RECORDS** AND STORE INDEXED POINTERS ... MEMORY RESIDENT SMALL **B-TREE** (SBT-0). PERIODICALLY, i WHEN SBT-1 IS EMPTY i AND SBT-0 IS NOT EMPTY i ^04 (1) ...

### Database system with improved methods for filtering duplicates from a tuple stream

US Pat. 5937401 - Filed Nov 27, 1996 - Sybase, Inc.

A database index, typically maintained as a **B-Tree** data structure, allows the **records** of a table to be organized in many different ways, depending on a ...

### Fully integrated architecture for user-defined search

US Pat. 6278994 - Filed Jul 9, 1998 - International Business Machines Corporation

The Search module 814 will perform a search using the **B-Tree** 816 to ... The DMS Filter module 824 and the RDS Filter module 826 perform final **filtering**. ...

**Run-time support for user-defined index ranges and index filters**

US Pat. 6285996 - Filed Jul 9, 1998 - International Business Machines Corp.

The Search module 414 will perform a search using the **B-Tree** 416 to ... The DMS Filter module 424 and the RDS Filter module 426 perform final 55 **filtering**. ...

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## Patents

Patents 11 - 20 on records b-tree filtering. (0.04 seconds)

### Method and apparatus for querying structured documents using a database extender

US Pat. 6366934 - Filed Jun 2, 1999 - International Business Machines Corporation  
( RDS Filter<sup>^</sup>) Range Producer<sup>^</sup>) (^DMS Filter Search range Record buffer (Misc.)  
( Add ) ^ Delete ) ( Search ) ( Filter \\ **B-tree** // / - ^ / / ...

### Method and apparatus for storing, retrieving, and processing multi-dimensional customer-oriented ...

US Pat. 6182060 - Filed Apr 8, 1998  
... in said first memory portion is arranged as one of a **B-tree**, a quad-tree, ...  
further com- 25 prising means for **filtering** said respective **records** in ...

### Multiple-stage evaluation of user-defined predicates

US Pat. 6192358 - Filed Jul 9, 1998 - Internatioanal Business Machines Corporation  
The Search module 414 will perform a search using the **B-Tree** 416 to ... The DMS  
Filter module 424 and the RDS Filter module 426 perform final **filtering**. ...

### Generalized model for the exploitation of database indexes

US Pat. 6253196 - Filed Jul 9, 1998 - International Business Machines Corporation  
The Search module 414 will perform a search using the **B-Tree** 416 to ... The DMS  
Filter module 424 and the RDS Filter module 426 perform final **filtering**. ...

### Multistage intelligent database search method

US Pat. 7107263 - Filed Dec 8, 2000 - Netrics.com, Inc.  
Every N-graph gi of the G unique N-graphs occurring in the database is 50 stored  
in a **B-tree** 30, together with a pointer 31 to a list R, 32 of all **records** ...

### Non-modal database system with methods for incremental maintenance

US Pat. 5893125 - Filed Sep 22, 1997 - Borland International, Inc.  
As shown, therefore, a **B-tree** consists of a plurality of nodes arranged in a tree.  
Each node may, in turn, be thought of as a block of **records**. ...

### Optimized query interface for database management systems

US Pat. 5727196 - Filed May 21, 1992 - Borland International, Inc.  
Baker, M., **B-tree** indexing: A look ... as field values in a record, an indexing  
component for referencing a plurality of **records** by a value of the field(s), ...

### System for searching information using combinatorial signature derived from bits sets of a base ...

US Pat. 5319779 - Filed Feb 19, 1992 - International Business Machines Corporation  
cm=m(mi)/2 a **B-tree** serve to reject or filter out entire subtrees To illustrate  
this, ... **Records** can be searched more effeciently by test- pages. ...

### Method and apparatus for generating reports using declarative tools

US Pat. 5809266 - Filed Jan 21, 1997 - Oracle Corporation

Processing of data by the group manager 412 includes **filtering**, ... 422 maintains an index into the data cache; the index can be a **B-tree** index of the data. ...

**Inverted index system and method for numeric attributes**

US Pat. 7080091 - Filed May 31, 2002 - Oracle International Corporation

Indexes are commonly configured in a **B-Tree** structure which includes a root node

... overhead for combining intermediate results and I/O cost for **filtering**. ...

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records b-tree filtering

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## Patents

Patents 21 - 30 on records b-tree filtering. (0.06 seconds)

### System for halloween protection in a database system

US Pat. 6122644 - Filed Jul 1, 1998 - Microsoft Corporation

50 Scan: Retrieves **records** or index entries from a heap file or **B-tree**. Offers two modes, one in which **records** or index entries are found in the order of ...

### Method for fault tolerant modification of data representation in a large database

US Pat. 6792429 - Filed Dec 19, 2001 - Hewlett-Packard Development Company, L.P.

Following this, the **records** of the old partition are copied, in step 276, ...  
the **B-tree** for the old partition is split into two parts, one for **records** in ...

### Efficient optimistic concurrency control and lazy queries for B-trees and other database structures

US Pat. 5920857 - Filed Aug 4, 1997 - Naphtali Rishe

DETAILED DESCRIPTION OF THE INVENTION Definitions **B-tree** is a data type that stores a large number of database **records** (strings). ...

### Optimizing storage and retrieval of monitoring data

US Pat. 6964040 - Filed May 23, 2001 - General Electric Company

So by inserting **records**, the component performing the insertion must manage ...  
The transfer manager component 30 discards the data **records** that have not ...

### Method and system for creating a database table index using multiple processors

US Pat. 6778977 - Filed Apr 19, 2001 - Microsoft Corporation

Additionally, the **records** may be further sorted based on secondary fields ...

In an embodiment, the sub-index is a data structure in the form of a **B-Tree**. ...

### Method and apparatus for generating reports using declarative tools

US Pat. 6160549 - Filed Jan 21, 1997 - Oracle Corporation

Processing of data by the group manager 412 includes **filtering**, ... 422 maintains an index into the data cache; the index can be a **B-tree** index of the data. ...

### User-defined search using index exploitation

US Pat. 6266663 - Filed Jul 9, 1998 - International Business Machines Corporation

Using this, the search model subset of **records**, which occurs in the DMS Filter ... includes user-defined functions perform a search using the **B-Tree** 416 to ...

### Method of performing approximate substring indexing

US Pat. 7010522 - Filed Jun 17, 2002 - AT&T Corp.

As will be discussed in detail below, position directed **filtering** is then ...  
q-gram information stored as a 2-tuple in a positional 55 **B-tree** arrangement. ...

### Retrieval system and method using distance index

US Pat. 6845377 - Filed Mar 22, 2002 - Fujitsu Limited

Normal relational databases would allow an index of **B-tree** to be readily set up

... operation for **filtering**; data input/output operations are performed only ...

Object-oriented query mechanism

US Pat. 5899997 - Filed Apr 1, 1997 - Transparency Systems, Inc.

... using a **filtering** criteria established outside of the criteria for the join.

... from the group consisting of: hash buckets, **B-tree**, and bit-indexes. ...

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## Patents

Patents 1 - 5 on **histogram algorithm query planning** (0.25 seconds)

### Query planning using a maxdiff histogram

US Pat. 6714938 - Filed Aug 31, 2000 - Microsoft Corporation

Query optimizer 312 analyzes queries received from various **query** sources and ...  
while for skewed data, the **maxdiff histogram algorithm** described below ...

### Method and system for creating a database table index using multiple processors

US Pat. 6778977 - Filed Apr 19, 2001 - Microsoft Corporation

Operation 1002 implements the **histogram** of statistical information into a doubly  
linked ... ; entitled **QUERY PLANNING USING A MAXDIFF HISTOGRAM**, filed Aug. ...

### Query processing method of name-value pairs in relational databases

US Pat. 6691102 - Filed Mar 26, 2002 - International Business Machines Corporation

The inaccurate **histogram** 402 leads to inaccurate selectivity estimates, which  
may cause **query planning** by the relational database **query** optimizer to be ...

### Graphical user interface for travel planning system

US Pat. 6307572 - Filed Jul 2, 1998 - ITA Software, Inc.

The **histogram** 502 is a plot of an metric or option such as time as the x axis versus  
... itineraries that result from a user executed travel **planning query**, ...

### Single-pass low-storage arbitrary probabilistic location estimation for massive data sets

US Pat. 7076487 - Filed Apr 11, 2002 - The Penn State Research Foundation

The **histogram** method does not suffer from this drawback. ... [I] Agrawal et  
al., System and Method For **Query** Optimization Using Quantile Values of a Large ...



## Patents

Patents 1 - 5 on sub index index delimiter partition query. (0.06 seconds)

### Alternate key index query apparatus and method

US Pat. 5884304 - Filed Nov 15, 1996 - Novell, Inc.

The engine may **partition** the criterion into its full text search portions and  
... The **query** engine may ignore a **sub**-predicate under the following ...

### Filtered index apparatus and method

US Pat. 5873079 - Filed Nov 15, 1996 - Novell, Inc.

The engine may **partition** the criterion into its full text search portions and  
... The **query** engine may ignore a **sub**-predicate under the following ...

### Hybrid query apparatus and method

US Pat. 5870739 - Filed Nov 15, 1996 - Novell, Inc.

The engine may **partition** the criterion into its full text search portions and  
... The **query** engine may ignore a **sub**-predicate under the following ...

### Method and system for creating a database table index using multiple processors

US Pat. 6778977 - Filed Apr 19, 2001 - Microsoft Corporation

5 Therefore, each independent **sub-index** may be merged together to form a final **index**  
... 2, a logical **partition delimiter**, when two partitions are required, ...

### Heterogeneous record search apparatus and method

US Pat. 6167393 - Filed Nov 15, 1996 - Novell, Inc.

The engine may **partition** the criterion into its full text search portions and  
... The **query** engine may ignore a **sub**-predicate under the following ...



## Patents

Patents 1 - 10 on sub index keys partition. (0.32 seconds)

### Interval-partitioning method for multidimensional data

US Pat. 6003036 - Filed Feb 12, 1998

It is also worth noting that all **keys** fields are used to determine exact **partition** boundaries even if only a proper subset of the key fields are selected as ...

### Machine generation of cryptographic keys by non-linear processes similar to processes normally ...

US Pat. 5297207 - Filed May 24, 1993

... selected set of bits, wherein the plurality of successive amorphous **keys**- ... with **sub**- dance with the amorphous **partition index** to pro- 30 stitions, ...

### Method for estimating cardinalities for query processing in a relational database management ...

US Pat. 5761653 - Filed Apr 3, 1996 - International Business Machines Corporation

Because the subsets are independent, the cardinality for a **partition** is ... C6), the full **index** cardinality is known 14 15 cardinality for the **sub**-group is ...

### Storing multidimensional data in a relational database management system

US Pat. 6484179 - Filed Oct 25, 1999 - Oracle Corporation

The latest **partition's** data is added to the warehouse as follows: (1) load or insert the data into a table, tiling it according to the desired **sub-cube** ...

### Alternate key **index** query apparatus and method

US Pat. 5884304 - Filed Nov 15, 1996 - Novell, Inc.

NOTE: For our purposes, a word may be understood to be a **sub**-string of ... The engine may **partition** the criterion into its full text search portions and ...

### Method for storing records of a distributed database by plural processors to provide a host ...

US Pat. 5842207 - Filed Jul 10, 1992 - Hitachi, Ltd.

3 is a view showing one example of the **partition** form of the table in the present ... of the **keys** of all of the records by the source processors (Step 104). ...

### Concurrency and recovery for **index** trees with nodal updates using multiple atomic actions by ...

US Pat. 5276872 - Filed Jun 25, 1991 - Digital Equipment Corporation

Going down from the root, each level describes a finer **partition** of the space ... If the **sub**- space directly contained in an **index** node does not include the ...

### Integration platform for heterogeneous databases

US Pat. 5970490 - Filed Nov 4, 1997 - Xerox Corporation

Alternatively, 55 **partition** of the instances, where each **partition** subset has ... (selection **keys**, i, relation) 60 65 trees, since they may include complex ...

### Method and system for creating a database table **index** using multiple processors

US Pat. 6778977 - Filed Apr 19, 2001 - Microsoft Corporation

The method first determines **partition** delimiters wherein each **partition** ...

The data structure is essentially the **sub-index** and may be a balanced tree, ie, ...

External sorting using key value distribution and range formation

US Pat. 4575798 - Filed Jun 3, 1983 - International Business Machines Corporation

In this regard, the *i*th **sub-** phase involves the retrieval and sorting of each

... of the records whose **keys** lie within a range of a **partition** and internally ...

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[research.microsoft.com/~gray/HPTS99/papers/Rahm.pdf](http://research.microsoft.com/~gray/HPTS99/papers/Rahm.pdf) - [Similar pages](#)**Partition exchange technique for operating a data warehousing ...**A "local index" is an **index** build on a partitioned table in such a way that each **partition** maintains a **sub-index**. The overall **index** is formed by having a ...  
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[ More results from 140.110.17.8 ]**Search engine with hierarchically stored indices - Patent 20050102270**The search engine as recited in claim 13, wherein the first **sub-index** is .... in a column for each **index partition** when selecting a set of search nodes to ...  
[www.freepatentsonline.com/20050102270.html](http://www.freepatentsonline.com/20050102270.html) - 42k - [Cached](#) - [Similar pages](#)[\[PDF\]](#) **City of Tigard Subdivision and Minor Land Partition Map Index**File Format: PDF/Adobe Acrobat - [View as HTML](#)  
SUBDIVISION. AND. MINOR LAND **PARTITION**. MAP INDEX. September 6, 2006. 13125  
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[www.ci.tigard.or.us/online\\_services/gis/docs/subindex.pdf](http://www.ci.tigard.or.us/online_services/gis/docs/subindex.pdf) - [Similar pages](#)**Indexing**These supported parameters include the **index partition** clause, ..... For example, **sub-index** A is an **index** on the title column and the bid\_close column. ...  
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[Rahm, Erhard; Mrtens, Holger; Sthr, Thomas: On Flexible ...](#)

As a result, **index** support on a particular attribute IA results in a local **subindex** per node on attribute IA. For an **index** query on IA (different from TPA), ...

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